## CITY OF GREENSBORO 2012 WATER QUALITY RESULTS MONITORED LEAVING THE TREATMENT PLANT

					RESULTS				
SUBSTANCE	UNIT HI	GHEST ALLOWED by EPA	PUBLIC HEALTH GOA	L ANNUAL COMPLIANCE TESTING	AVERAGE	RANGE	Violatio	n COMMENT	POTENTIAL SOURCE OF SUBSTANCES
Aluminum	mg/L <sup>2</sup>	REGULATED <sup>5</sup>	0.20		T <sup>1</sup> 0.01 M <sup>1</sup> 0.05	T <0.01 -0.06 M <0.01 -0.15	NO	Secondary Standard	Residual from the Treatment Process
									Solder, electronics, fire retardants
									Erosion of natural deposits
									Erosion of natural deposits  Erosion of natural deposits; metal refinery
									Metal refinery; coal burning factory
									Corrosion of galvanized pipes; natural erosion
Chloride	mg/L	REGULATED 5	250		T 1 13.7 M 13.0	T 6.24-18.3 M 5.79-20.9		,	
Chlorine, Total	mg/L	4.0 MRDL 11	4.0 MRDLG		T 1 3.04 M 1 3.06	T 1.8-3.9 M 1.8-3.9	NO	Chlorine residual tested every 2 hours, monitored continuously on-line	Water additive used to control microbes
Chloramines Color	mg/L CU	4.0 MRDL REGULATED 5	4.0 MRDLG 15		T 1 2.54 M1 2.61 T 1 1.8 M1 2.2	T 1.1-3.4 M 1-3.7 T <1 -9 M <1 -10	NO	Secondary Standard	Erosion of natural deposits; steel mills
Free Ammonia	mg/L	NOT REGULATED	13		T 1.8 M 2.2	T 0-0.2 M 0-0.54	INO	Secondary Standard	<b>」</b>
	g. =								
Fluoride	mg/L	4.000	2.00	T <sup>1</sup> 0.54 M <sup>1</sup> 0.13	T <sup>1</sup> 0.49 M <sup>1</sup> 0.32	T 0.09-0.89 M 0.06-0.72	NO		Water additive which promotes strong teeth
Hardness, Total	mg/L	NOT REGULATED		_1		T 23 - 67 M 20 - 65		Considered to be moderately soft (USGS standards established in 1962)	Natural deposits and the treatment process
Iron	mg/L	REGULATED 5	0.300	T 1 <0.060 ND M1 <0.060 ND T 1 <0.010 ND M1 <0.010 ND		T <0.01-0.17 M <0.01-0.18	NO	Secondary Standard	Plumbing corrosion and natural deposits
Manganese	mg/L	REGULATED <sup>5</sup>	0.050	1 <0.010 ND M <0.010 ND	T <sup>1</sup> <0.01 ND M <sup>1</sup> .01	T <0.01-0.06 M <0.01-0.12	NO	Secondary Standard	Plumbing corrosion and natural deposits  Landfill and cropland runoff; natural deposits
									Erosion of natural deposits
Nitrate as Nitrogen	mg/L	10.0	10.0	T 1 <1.00 ND M1 <1.00 ND	T <sup>1</sup> .32 M <sup>1</sup> .43	T .10 - 0.92 M .10 - 0.79	NO		Fertilizer runoff; sewage; natural deposits
рН	SU	REGULATED <sup>5</sup>	6.5-8.5	T 1 M1		T 7-9.1 M 7-8.9	NO	Secondary Standard	
Phosphate, total	mg/L	NOT REGULATED			T <sup>1</sup> 2.33 M <sup>1</sup> 2.17	T 1.38 -5.48 M 0.73 -3.44	NO		Fertilizer runoff; Corrosion control treatment
On divine	n	NOT DECL!! ATTS		T1 47 40 141 10 00	T14501	T 0004 M 11005			Mine waste; natural deposits
Sodium	mg/L	NOT REGULATED  REGULATED 5	050	T 1 17.40 M1 19.86 T 1 28 M1 33	T 15.0 M 17.3 T 135.5 M 142.7	T 6.6-24 M 11.2-25	NO	Cocondany Standard	Naturally occurring minerals in the soil
Sulfate Total Dissolved Solids (TDS)	mg/L mg/L	REGULATED 5	250 500	1 20 IVI 33		T .1 - 121 M 7.6 - 77.6 T 70 - 159 M 80 - 157	NO NO	Secondary Standard Secondary Standard	Naturally occurring minerals in the soil  Erosion of natural deposits; treatment process
Total Dissolved Solids (TDS)	mg/L	NEOULATED	300		1 100 101 110	1 10-100 IVI 00-13/	INO		Leaching from ore processing
Turbidity 13	NTU <sup>10</sup>	TT <sup>9</sup>	N/A 14		T 1 0.05 M 1 0.11	T 0.02-0.17 M 0.06-0.36	NO	99.99% of all samples were <0.30. The EPA requirement is 95%.	Soil runoff
Zinc	mg/L	REGULATED 5	5.0		T <sup>1</sup> <0.01 M <sup>1</sup> <0.01	T <0.01-0.03 M <0.01-0.01	NO	Secondary Standard	Corrosion of plumbing fixtures; industrial wast
									By-product of drinking water disinfection
DICINIFICATION BY PRODUCT PRECURSORS								Casandary Ctandard	By-product of drinking water disinfection
DISINFECTION BY-PRODUCT PRECURSORS	mg/l		N/Δ		T1 2.15 M1 1.00	T1 68-2 71 M 1 34-2 18	NO	Secondary Standard  Compliance based on 45%: Compliance method Stan 1 and Acc4	
DISINFECTION BY-PRODUCT PRECURSORS Total Organic Carbon SYNTHETIC ORGANIC CHEMICALS	mg/L	П 9	N/A	1	T <sup>1</sup> 2.15 M <sup>1</sup> 1.90	T1.68-2.71 M 1.34-2.18	NO	Secondary Standard Compliance based on 45%; Compliance method Step 1 and Acc4 Includes pesticides and herbicides.	By-product of drinking water disinfection  Naturally present in the environment  Pesticide/herbicide runoff  Discharge from rubber & chemical factories
Total Organic Carbon	mg/L	∏ 9	N/A	1	T <sup>1</sup> 2.15 M <sup>1</sup> 1.90	T1.68-2.71 M 1.34-2.18	NO	Compliance based on 45%; Compliance method Step 1 and Acc4	Naturally present in the environment Pesticide/herbicide runoff
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Total Organic Carbon SYNTHETIC ORGANIC CHEMICALS  DISINFECTION BY-PRODUCTS Total Trihalomethanes TTHM	μg/L <sup>16</sup>	80.0	N/A		NITORED IN THE DISTRIBUTIO	N SYSTEM 24.9 - 88.4	NO	Compliance based on 45%; Compliance method Step 1 and Acc4	Naturally present in the environment  Pesticide/herbicide runoff  Discharge from rubber & chemical factories  By-product of drinking water disinfection
Total Organic Carbon SYNTHETIC ORGANIC CHEMICALS  DISINFECTION BY-PRODUCTS Total Trihalomethanes TTHM Total Haleocetic Acids HAA5	μg/L <sup>16</sup> μg/L	80.0 60.0	N/A N/A		RAA 51.8 RAA 37.5	N SYSTEM  24.9 - 88.4 25.5 - 57.2	NO NO	Compliance based on 45%; Compliance method Step 1 and Acc4 Includes pesticides and herbicides.	Naturally present in the environment  Pesticide/herbicide runoff  Discharge from rubber & chemical factories  By-product of drinking water disinfection  By-product of drinking water disinfection
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Total Organic Carbon SYNTHETIC ORGANIC CHEMICALS  DISINFECTION BY-PRODUCTS Total Trihalomethanes TTHM Total Haleocetic Acids HAA5 Chlorine, Total residual Total Coliform E. Coli  Lead Jan-Jun. 2012 Copper Jan-Jun. 2012  1 T Townsend Water M Mitchell Water Pla Company Mitchell Water Pla Comp	μg/L 16 μg/L mg/L mg/L 5.0  Plant, located northe ant, located in centra er equivalent to Parts of a contaminant tha thaminant in drinking quidelines for drinkin l, which means below	80.0 60.0 4.0 MRDL <sup>11</sup> %of monthly samples positive zero  15.0 AL <sup>15</sup> 1.30 AL east of Greensboro, with source wates per Million (ppm). (Corresport is allowed in drinking water. water below which there is no g water due to aesthetic consider the detection limit of the instruction.	N/A N/A N/A 4.0 MRDLG zero zero  zero 1.30  ze water supplied by Lake Brand to one penny in \$10,0 MCLs are set as close to known or expected risk to iderations such as taste. Corument	MON  100.00% of homes were bele 100.00% of homes were bele 100.00% of homes were bele DEFINITIONS Townsend dt 000, or one minute in two years.) the MCLGs as feasable using the belonealth. MCLGs allow for a margin color and odor. These substances a	RAA 51.8 RAA 37.5 2.18 1.23% 0.00% IONITORED AT THE CUSTOME OW A.L.* 90th percentile= 3.07 S AND KEY TO ABBREVIATION Dest available treatment technology of safety. are not considered a risk to human	24.9 - 88.4 25.5 - 57.2 <0.01 - 3.70 ERS TAP  <3 - 9  <0.0528  S USED IN A TABLE	NO NO NO NO NO NO	Compliance based on 45%; Compliance method Step 1 and Acc4 Includes pesticides and herbicides.  Analyzed as each biological sample is collected (2169 in 2012) 2 positives of 162 monthly distribution samples in October 2012 0 positives of 2169 distribution samples collected in 2012  A minimum of 100 at-risk homes tested by a State certified lab for copper & lead	Naturally present in the environment Pesticide/herbicide runoff Discharge from rubber & chemical factories  By-product of drinking water disinfection By-product of drinking water disinfection Disinfection additive used to control microbes Naturally present in the environment Human and animal fecal waste  Corrosion of household plumbing
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Total Organic Carbon SYNTHETIC ORGANIC CHEMICALS  DISINFECTION BY-PRODUCTS Total Trihalomethanes TTHM Total Haleocetic Acids HAA5 Chlorine, Total residual Total Coliform E. Coli  Lead Jan-Jun. 2012 Copper Jan-Jun. 2012  1 T Townsend Water M Mitchell Water Piz M Milligrams per Litt M MCLG The highest level MCLG The level of a cor Secondary Standards Non-enforceable Non-enforceable Non-Detects, labor MFL Million Fibers per TT Treatment Techni NTU Nepholometric Tu MRDL Maximum Residu MAXIMUM Not-Applicable, in Micrograms per L	μg/L 16 μg/L μg/L mg/L s.0'  Plant, located northe ant, located in centra er equivalent to Parts of a contaminant in drinking quidelines for drinking quidelines for drinking the country analysis indicated a required procurbidity Unit, measure al Disinfectant Level, al Disinfectant Level effluent used for comformation not applicate concentration of a coliter equivalent to Part	80.0 60.0 4.0 MRDL <sup>11</sup> %of monthly samples positive zero  15.0 AL <sup>15</sup> 1.30 AL east of Greensboro, with source wate per Million (ppm). (Corresport is allowed in drinking water, water below which there is no quater due to aesthetic considuates that the contaminant is not so in the detection limit of the instructes that the contaminant is not so intended to reduce the levels the cloudiness of the water; the highest level of a drinking water has the contaminant water in the water able/not required for the water.	N/A N/A N/A A.0 MRDLG Zero Zero 1.30  Ee water supplied by Lake ter supplied by Lake Brand to one penny in \$10,0 MCLs are set as close to iderations such as taste, or ument of present at the level of continued to incometers at no time can the turbidicated at allowed in drinking water disinfectant below when the system or for that particular, triggers treatment or other	MON  100.00% of homes were beld 100.00% of homes were beld 100.00% of homes were beld DEFINITIONS Townsend dt 100, or one minute in two years.) the MCLGs as feasable using the box one and odor. These substances a letection set for the particular method his most of the particula	RAA 51.8 RAA 37.5 2.18 1.23% 0.00% IONITORED AT THE CUSTOME OW A.L.* 90th percentile= 0.07 BAND KEY TO ABBREVIATION Dest available treatment technology of safety. Are not considered a risk to human and old old yes are not considered a risk to human that addition of a disinfectant is risk to health. MRDLGs do not resem must follow. If more than 109	N SYSTEM  24.9 - 88.4 25.5 - 57.2 <0.01 - 3.70  ERS TAP  <3 - 9 <0.0528  S USED IN A TABLE  Day.  an health at the established level of the use of the	NO N	Compliance based on 45%; Compliance method Step 1 and Acc4 Includes pesticides and herbicides.  Analyzed as each biological sample is collected (2169 in 2012) 2 positives of 162 monthly distribution samples in October 2012 0 positives of 2169 distribution samples collected in 2012  A minimum of 100 at-risk homes tested by a State certified lab for copper & lead All consumer complaints tested for Copper & Lead by the Water Resources Lab inants.  Into to control microbial contaminants.	Naturally present in the environment Pesticide/herbicide runoff Discharge from rubber & chemical factories  By-product of drinking water disinfection By-product of drinking water disinfection Disinfection additive used to control microbes Naturally present in the environment Human and animal fecal waste
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